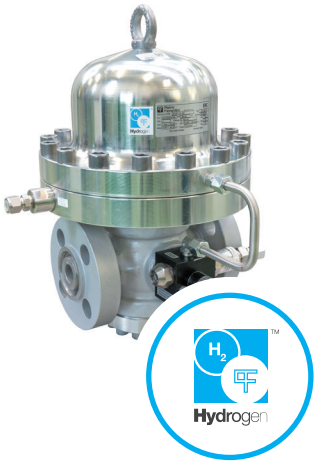
Pietro Fiorentini

Staflux 187 H



Staflux 187 H is one of the **direct-operated gas pressure regulators** designed and manufactured by Pietro Fiorentini. This device is suitable for **100% hydrogen applications**. It is the natural evolution of the Pietro Fiorentini know-how and experience in the gas industry. It is mainly used for high-pressure transmission systems and for medium pressure gas distribution networks. According to the European Standard EN 334, it is classified as **Fail Open.**

- Compression / booster stations
- H_2 storage
- H_2 liquefaction plants
- Compressed hydrogen tube trailers
- City gates
- Heavy industries
- Regasification plants
- Power generation
- Gas reverse flow
- Blending units

Features	Values
Design pressure* (PS[1] / DP[2])	up to 25.0 MPa up to 250 barg
Ambient temperature* (TS[1])	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet gas temperature*	from -20 °C to +60 °C from -4 °F to +140 °F
Inlet pressure (MAOP / p_{umax} [1])	from 0.2 to 25 MPa from 2 to 250 barg
Range of downstream pressure (Wd[1])	from 0.1 to 7.5 MPa from 1 to 75 barg
Minimum operating differential pressure (Δp_{min} [1])	0.1 MPa 1 barg
Accuracy class (AC[1])	up to 5 (depending on working conditions)
Lock-up pressure class (SG[1])	up to 10 (depending on working conditions)
Nominal size (DN[1,2])	DN 25 / 1”;
Connections	Class 1500 RF or RTJ according to ASME B16.5

([1]) according to EN334 standard
([2]) according to ISO 23555-1 standard
(*) NOTE: Different functional features and/or extended temperature ranges may be available on request. Stated inlet gas temperature range is the maximum for which the equipment's full performance, including accuracy is guaranteed. Product may have a different pressure or temperature ranges according to the version and/or installed accessories.

Table 1 Features

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Materials and Approvals

Part	Material
Body	Cast steel ASTM A352 LCC (with specific chemical composition requirements)
Cover	ASTM A350 LF2 carbon steel (with specific chemical composition requirements)
Stem	Austenitic stainless steel
Seat	Austenitic stainless steel
Diaphragm	Vulcanized rubber
Sealing ring	Polyamide engineering plastic
Compression fittings	Austenitic stainless steel

NOTE: The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.

Table 2 Materials

Staflux 187 H regulator is designed according to European standard EN 334.
The regulator reacts in opening (Fail Open) according to EN 334.
The product is certified according to European Directive 2014/68/EU (PED).
Leakage class: bubble tight, better than VIII according to ANSI/FCI 70-3.

EN 334

PED-CE

Staflux 187 H competitive advantages

- Compact and simple design
- Operates with high differential pressure
- Top Entry
- Easy maintenance
- Balanced type
- Suitable for 100% Hydrogen

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